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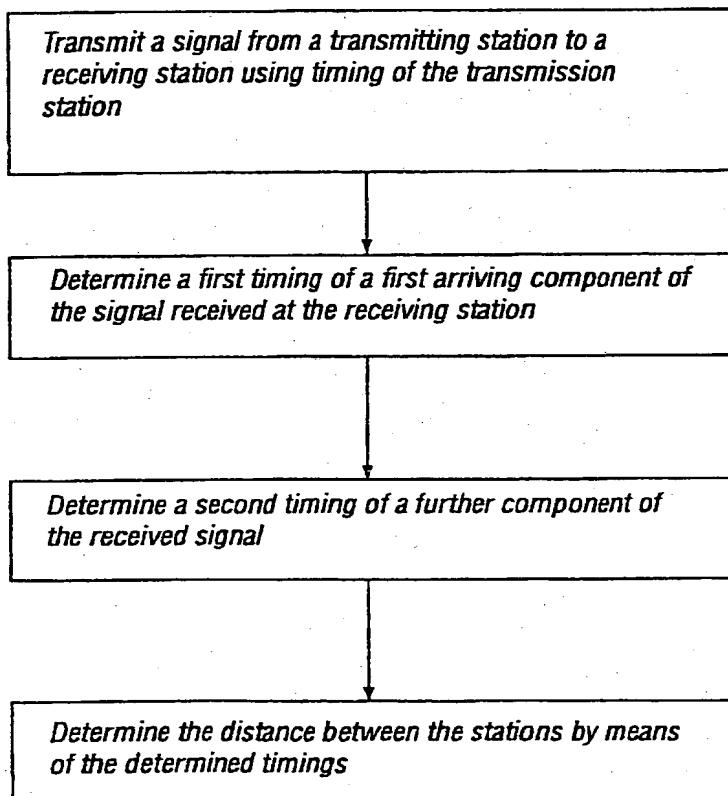
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(54) Title: DISTANCE ESTIMATION IN A COMMUNICATION SYSTEM



(57) Abstract: The present invention relates to estimation of the distance between stations that communicate in a communication system over a radio interface. In the system at least one of the stations transmits signal bursts in time slots in accordance with a timing structure and at least one station receives the signal bursts. The method comprises determination of a first timing of a signal burst received at the receiving station, the first timing being associated with the first component of the received signal burst that meets a predefined condition. A second timing of the received signal burst is also determined for use in adjustment of internal timing of the receiving station for receiving and/or transmitting further signal bursts from and/or to the transmitting station. A timing offset is also determined between the stations. The distance between the stations is estimated based on the timing offset and the first timing of the received signal burst.

WO 01/19112 A1



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